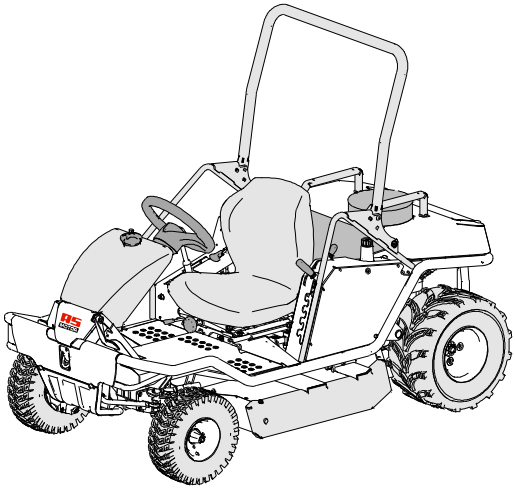
Operating Instructions



Ride-on Allmäher®

AS 940 Sherpa 4WD + AS 940 Sherpa 4WD XL

From serial number: 021914110001, Sherpa 4WD XL: 026414110001
Issued: 13 February 2015, V23.0
EN-Translation of the Original Operating Instructions

Preface

Please fill in all data referring to your device. When ordering spare parts, provide your dealer with the device and engine number.

Serial number:

Pleases adhere the sticker from the warranty card here.

Engine number:

Date of purchase:

Address of dealer:

Dear customer:

Congratulations on your purchase. You have acquired a reliable quality product by “AS-Motor Germany”.

This product has been manufactured according to modern manufacturing methods and comprehensive quality assurance measures. Only when you are satisfied with your device, we have attained our goal.

Read these operating instructions carefully and attentively so that your device operates smoothly and you and others are safe from any hazards. If you have questions concerning your device, please contact your dealer or call our customer service (telephone +49/(0)7973/9123-0). For international AS partners, please see: www.as-motor.de/worldwide.

“AS-Motor Germany” wishes you much joy with your new device.

Intended use

The device is intended for cutting and mulching grass or similar vegetation in agriculture, forestry, and landscape conservation.

Only use attachments and cutting tools authorised by “AS-Motor Germany”.

Any use exceeding this purpose is inadmissible. The manufacturer is not responsible for any damage resulting from this. Observe the required maintenance and repair measures.

The user of the device is responsible for accidents or damage to other persons or their property!

The device **must not** be used:

– To cut hard objects, rocks, rubble, or pieces of wood.

– To trim bushes, hedges, and shrubbery.

– To cut plants on rooftops.

– To clean (vacuum) footpaths.

– As shredder for shredding tree and hedge cuttings.

– As drive unit for work tools and any type of tool sets that are not authorised by “AS-Motor Germany”.

The device is not licensed for driving on public roads.

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Explanation of the symbols

Symbols in the instructions

In these operating instructions, the following symbols are used to denote special dangers.

Warning.
These symbols denote special dangers.

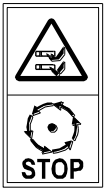
Prohibition sign.
These symbols denote inadmissible procedures.

Directive sign.
These symbols denote required protective measures.

Symbols on the device

The following symbols are placed on the device to inform you must be careful and attentive when using the device:

Risk of injury!
Make sure that no one is within the danger zone of the device. Objects may be ejected.



The quickly rotating blade can cause life threatening injuries or immense property damage! Be especially careful to keep your hands and feet away from the blade when the device is put into operation.

Risk of tipping!
When positioned sideways to the slope, the device is stable up to 23° (in accordance with the standard measuring method).

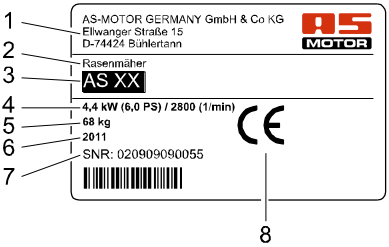
Prior to any repair and maintenance work, remove the ignition key.

Clean the ventilation grid!
The cooling air of the motor is sucked in through the ventilation grid of the engine cover. Always keep the entire surface open and free!

Noise is causing health problems. Use personal ear protection to avoid hearing damage.

Type plate

The type plate on the device provides you with information on the device type and the technical data.



1 Name and address of the manufacturer
2 Device designation
3 Type designation
4 Rates power output in kW / engine speed
5 Weight
6 Year of manufacture
7 Serial number
8 CE marking

Safety instructions

Get informed!

For your safety, read these operating instructions with care. Familiarize yourself with the control elements and the proper use of the device. Share these operating instructions with other users of the device.

Before you use the device for the first time, let the dealer instruct you regarding safe use.

Get familiar with the device in a wide, open and flat terrain first.

User restrictions and hours of operation

Never allow children or persons who are not familiar with the operating instructions to use the device. Persons under 18 years of age may operate the device only under proper supervision. Local regulations determine the minimum age of the operator und the operating times.

Unsuitable for operation of the device are persons who

– are under the influence of alcohol, drugs or reaction retarding medicines.

– have physical and mental/emotional impairments.

– are tired or sick.

People fitted with pace makers are not allowed to touch any current carrying parts of the ignition system.

Safe handling of fuel

Danger!
Fuel is toxic and highly inflammable.

Danger of fire and explosion!

Keep the fuel away from ignition sources and do not smoke while handling the device.
Do not inhale fuel vapours; they are dangerous to your health.

Use gloves and avoid skin contact with the fuel.

Fuel up outdoors only when the engine is cool and not running. Use a filler or funnel.

Do not spill any fuel and do not let the fuel get into the canalisation or ground water.

If you spilled fuel, do not start the device until the fuel vapours have evaporated (wipe dry). Move the device away from the area where the fuel was spilled.

Always close the tank cap securely and do not open it while the engine is running or the device is still hot.

Drain the fuel tank only when outdoors. Use a suitable container or run the tank empty.

Keep the fuel away from children and store it in a suitable container in a dark, cool, and dry location.

Never park the device with fuel in the tank inside a building where fuel vapours could come in contact with open fire or sparks.

Immediately replace a damaged fuel tank or tank cap (authorised dealership).

First aid

When swallowing fuel or inhaling fuel vapours, do not force vomiting and immediately consult a doctor.

In case of skin contact, immediately wash with water and soap. Change your soiled clothing as soon as you can.

Measures in case of a fire

In case of a fire, use foam, dry powder extinguisher, or carbon dioxide (CO_2). Never douse with water!

Check the device prior to use

Prior to use, check by visual inspection blade, protection skirt, ejection rubber, drive and fastening parts for proper condition and firm seating.

Never use the device if covers, impact protection, ejection rubber, or protective skirt are defective or not installed.

Do not remove, change or override any safety devices or control elements.

Observe the maintenance instructions and replace damaged or worn parts immediately.

Check the blade brake for proper function by switching off the blade clutch. The blade must come to a standstill from full speed within less than 5 seconds.

Check the parking brake for proper function (see Maintenance).

Use caution during operation

Do not start the engine

– if fuel was spilled.

– in closed or poorly ventilated rooms (danger of poisoning!).

– if there are other persons nearby.

After every stop and before you shut down the engine, actuate the parking brake. This prevents the device from accidentally rolling away.

Do not touch the exhaust, the engine, and the gearbox. They become very hot during operation and you can get burned. Resulting unintentional movements constitute an additional injury hazard.

Switch off the blade and wait until the blade comes to a standstill,

– when you drive on surfaces other than grass.

Switch off the engine and wait until the blade comes to a standstill and remove the ignition key,

– before you transport the device.

– if you step away from the device, even for just a short time.

– before you clean or check the device or before you carry out work on the device.

– before you unblock or unclog the discharge area.

Prior to mowing

Personal protective measures

While mowing, always wear sturdy footwear with good grip, long trousers, and gloves. Do not mow in open sandals or bare feet.

Noise is causing health problems. Use personal ear protection to avoid hearing damage. Wear safety glasses and headgear.

Ask your specialised dealer about suitable protective equipment.

Preparing the mowing area

Prior to mowing, carefully check the perimeter of the lawn. Remove rocks, pieces of wood, bones, wires, and other objects that could be picked up and thrown out by the device.

Use caution when mowing

Risk of injury

Stay within shouting distance to other people who can help you in case of an emergency.

Danger!
Risk of injury caused by thrown out objects.

Never mow while persons, children, pets, or property are in the vicinity.

The area in front of and to the right of the device is especially dangerous.

Keep your hands and feet away from the rotating parts.

Only mow during daylight or with adequate artificial lighting. Never mow in the event of uncertain weather conditions and risk of lightning.

Be especially carefully when mowing on soft ground, nearby landfills, ditches and dikes.

Do not transport any person on the device.

Be extremely cautious when moving in reverse.

Pay attention to traffic when working close to roads.

When using the device over a longer period of time, vibrations can cause disturbances in the blood supply of the hands. A generally accepted usage time cannot be determined. Use gloves.

Take breaks on time.

Have an authorised service centre check the device immediately

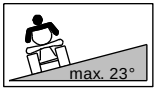
– if the blade hit an object.
– if the device starts to vibrate unusually severely.

Caution when mowing slopes

Danger!
If the device, while in use, stops in steep terrain or the engine cuts out, the device can roll away.

Immediately actuate the parking brake to prevent the device from rolling away.

Observe the information regarding the oil pressure switch in chapter Starting.



When mowing slopes, there is a risk of slipping and tilting!

– Do not mow excessively steep slopes. For safety reasons, use the device only on less than 23° slopes.
– Use a clinometer if you are not familiar with the slope (see accessories).
– Never unlock the drive at the slope because the device can roll away.
– Always mow up- and downhill, never in horizontal direction.
– Always move upwards first. If you are unsuccessful at moving upwards first, you must not mow the slope. Never move downwards if you were not successful at moving upwards.
– Be extremely cautious when changing the direction.
– Do not turn on a slope.
– Only mow when you are familiar with the terrain and the terrain is clear of obstacles.
– Pay attention to bumps, holes, and other visible hazards.
– Do not mow close to danger zones (e.g. walls, steep declines, etc.).
– Prior to entering the slope, always actuate the differential lock. Move on slopes only when the differential lock is actuated.
– Always keep the speed low when moving on slopes.
– Do not start abruptly and do not brake abruptly.

– Hold the steering wheel tightly so that the device does not swerve.

Only park the device on flat surfaces.

The drive has good braking efficiency which can only provide sufficient grip on a non-slip surface.

If the mower starts to slide you can regain control by actuating the brake. Uncontrolled handling is due to:

– poor tire grip.

– speeding.

– abrupt braking.

– an inappropriate task for the device.

– poor knowledge of the area.

– slope angles that are too steep.

Risk of tilting

If the wheels facing uphill encounter obstacles such as roots, branches, rocks, bumps, etc., the mower can tilt or slide.

When loading the transport rack, there is an increased tipping hazard. Observe the notices regarding the transport rack.

Keep in mind that all attachments and extra loads increase the tilting hazard.

Risk of slipping

When the ground is wet or loose, use extreme caution to prevent the mower from slipping. Use extreme caution when moving downhill. On cut plant material, no matter if wet or dry, the risk of slipping is high.

Mowing surfaces with fire hazard

– Carry a sufficient amount of suitable extinguishing agent.

– If side inclination is too great, fuel may leak from the carburetor or the tank. This poses a fire hazard!

– Observe the mowed surface also after moving is completed to ensure that no fire will start.

To avoid risk of fire, keep the following components free of dirt, grass, hay, leaking oil, grease, etc:

– Engine

– Silencer (manifold, guard, clearances)

– Battery

– Area around the fuel tank

Caution when using accessories

Be careful when pulling loads:

– Only use tow-bars authorized by “AS-Motor Germany”.

– Observe the maximum load carrying capacity (Technical data).

– Observe the safety instructions in the operating instructions of the tow-bar.

– Only transport loads that you can handle safely.

– Only drive on slopes up to 10°.

– Do not take tight corners.

– Be extremely cautious when moving in reverse.

When work is completed

After mowing, always close the fuel valve and the tank ventilation.

Prior to leaving the device, wait until the engine comes to a standstill and pull off the ignition key.

After switching it off, let the device cool down for at least 20 minutes before you store it in a dry, closed, sufficiently ventilated room.

Never store the device when there is fuel in the tank inside a building where fuel vapours might come into contact with open fire or sparks.

Use caution during maintenance and repair

Only carry out maintenance work as described in these operating instructions. Have an authorised service centre carry out all other work.

Only use the knives and spare parts authorized by “AS-Motor Germany”. Unauthorized knives and spare parts can cause severe injuries.

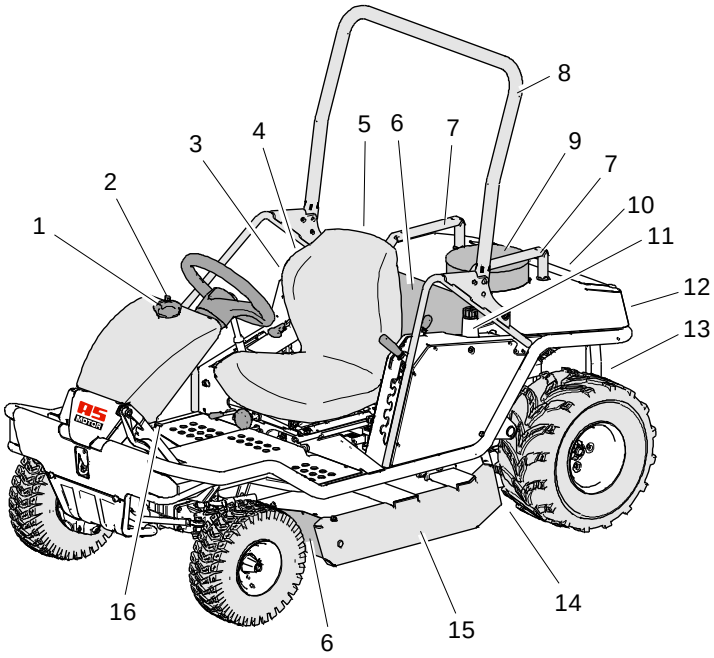
Prior to all maintenance work, wait until the engine comes to a standstill and pull off the spark plug connector.

We explicitly point out that, in accordance with the Product Liability Act, we are not liable for damages that were caused by our devices if

– worn or damaged parts were not repaired or replaced on time.
– these damages were caused by improper repair.
– when changing a part, our original parts or parts authorised by use were not used.
– the repair work was not carried out by an authorised service station.

The same applies for spare parts and accessories.

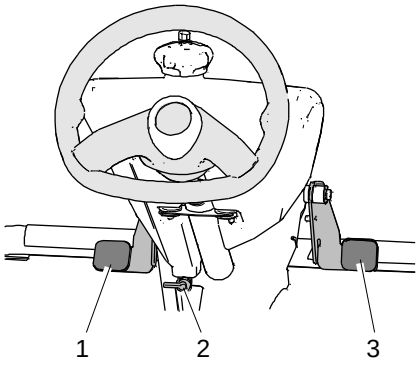
Device description



1 Tank cap
2 Tank ventilation
3 Type plate
4 On-board supply socket
5 Protection skirt
6 Transport rack
7 Rollbar
8 Type plate
9 Ventilation grid
10 Silencer grid
11 Oil surge tank
12 Gearbox fan
13 Unlocking device drive
14 Ejection rubber
15 Side plates impact protection
16 Fuel valve

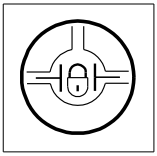
Control elements

Front area



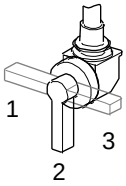
Differential lock (1)

With the left foot pedal, actuate the differential lock.



Pedal is actuated:
Differential lock is on
Pedal is not actuated:
Differential lock is off

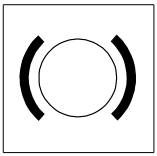
Fuel valve (2)



1: Reserve
2: Open
3: Closed

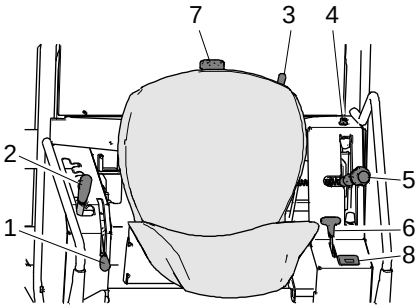
Foot brake/parking brake (3)

By stepping on the right foot pedal, the parking brake is actuated. Use the actuation via foot pedal only in exceptional circumstances because the mower stops abruptly.



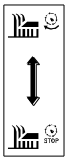
Braking:
Release the drive lever and press down the right foot pedal (3).

Control lever at seat



Blade clutch lever (1)

The blade clutch lever is a protective device. When you declutch the blade, the blade comes to a standstill within 5 seconds.



Declutching the blade:
Set the accelerator lever to MIN. Guide the blade clutch lever backwards.
Clutching the blade:
Slowly pull forward the lever.

Cutting height adjustment (2)

The cutting height for the lawn can be set to five positions.

The top position is the transport position.

Sitting position

Press the lever (3) to the right, move the seat to the desired position, and engage it.

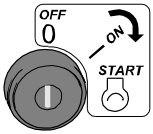
Seat suspension (7)

The seat suspension can be adjusted to the driver's weight.

Heavier drivers: Turn clockwise.
Lighter weight drivers: Turn anti-clockwise.

Ignition lock (4)

The ignition lock has three positions.



OFF: Ignition off.
The key can be removed.
ON: Ignition on.
START: Electric starter on.

Drive lever with parking brake (5)

The drive lever is needed to drive forward and in reverse as well as to stop the mower. The further you move the lever in one or the other direction, the faster the device moves.

In the neutral position, the parking brake is actuated.

Moving forward

Stopping (neutral position/parking brake)

Moving in reverse

Accelerator lever with choke (6)

Via the accelerator lever, you change the engine speed and control the engine performance. When you want to start the device when the engine is cold, move the accelerator lever to choke position (choke is closed).

MAX: Full throttle position

MIN: Idling speed. Pull the accelerator all the way up

Choke: Choke is closed (only for cold engine start). Press the accelerator all the way down.

Operating hours counter (8)

The operating hours are counted as soon as the engine is running.

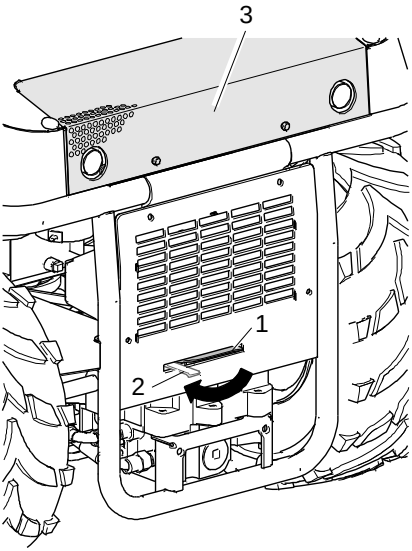
Display:

– When engine is running: engine speed
– When engine is off: operating hours

Drive/idle mode

Warning!
Hot silencer grid.
Do not touch the silencer grid (**3**) when you are pushing the device. The grid gets very hot during operation and you can get burned.

Caution!
Engine startup with unlocked drive can destroy the hydraulic drive.
Never start the engine when the drive is unlocked.

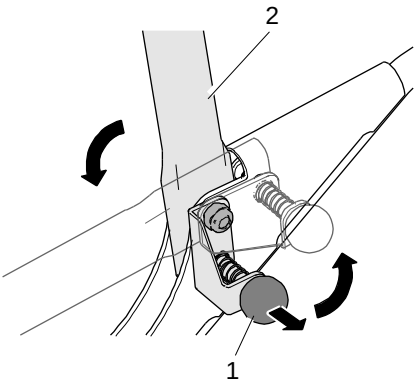


To push a mower without engine drive, unlock the drive at the rear of the device and release the parking brake. In this condition, the mower can only be braked with the parking brake.

1: Locked

2: Unlocked (idling)

Rollbar



Putting down the rollbar

1. Pull out the lever (**1**).
2. Put down the rollbar (**2**).
3. Swivel the lever forwards and engage the lever.

Putting up the rollbar

1. Pull out the lever (**1**).
2. Put up the rollbar (**2**).
3. Swivel the lever down and engage the lever.

Transport

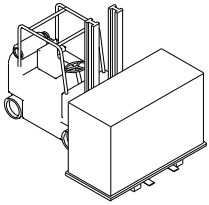
Transport the device on a freight vehicle or a trailer which is designed for a carrying capacity of at least as great as the empty weight of the device.

Transport on pallets

For transport over short distances, use a fork lift or a lift truck.

For longer distances, load the device with a fork lift onto a freight vehicle or trailer.

The user must be authorised to operate a fork lift. When the machine is lifted, all persons must step away from the working area of the fork lift.



Notice! Drive the fork lift completely under the longitudinal beams of the wooden pallets.

Transport of ready-to-use device

Warning!
Risk of injury due to the heavy weight of the device. The device can fall over and fall down and cause severe injuries.
Observe the following notices.

Prior to transport, let the device cool down for at least 20 minutes. Close the fuel valve.

Loading

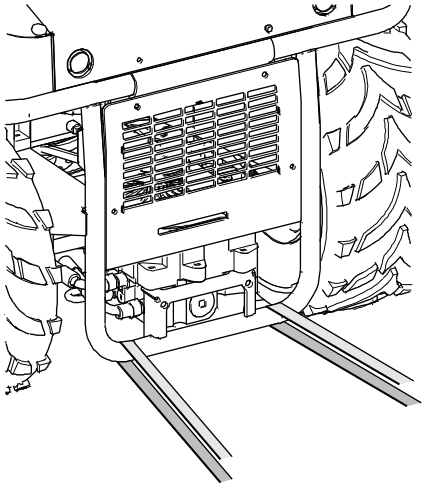
Use suitable ramps for loading that

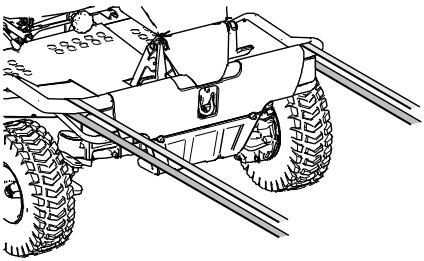
– can carry the empty weight of the device + 100 kg.

– are wider than the device.

– have a slip-free surface.

1. Put the device in front of the ramps and make sure that the ramps
   – are as wide as the wheel gauge of the device.
   – are tightly secured to the platform.
   – are not steeper than 15°.
2. Carefully drive the device via the ramps onto the platform.
3. Secure the device against rolling, sliding, tilting, and fuel leakage.





4. Secure the device with belts to the frame elements that can hold the weight.

   Caution! To prevent damages to the device, we recommend to fasten the straps exactly as shown in the illustration. Do not overtighten the straps.

Unloading the device

1. Undo the transport fastenings.
2. Drive the device carefully down the ramps of the platform.

Assembly

Scope of delivery

The device is delivered in a carton on a pallet. The scope of delivery includes:

– The device.

– These operating instructions.

– Warranty card.

– Tool bag with small items.

– Steering wheel.

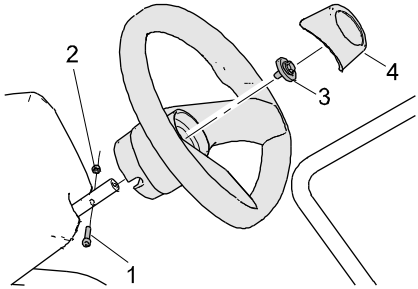
– Ignition key.

– Operating instructions of the engine manufacturer.

Unpacking

1. Remove the carton.
2. Check the air pressure of the tires (see Technical data).

Mounting



Mount the steering wheel:

1. Insert the screw (**1**) through the steering wheel and the steering column.
2. Tighten the central fixing screw (**3**).

3. Screw the nut (**2**) onto the screw (**1**).
4. Fit the cap (**4**).

Information on mowing

Prior to mowing, check your device for completeness, proper functioning, and cleanliness. A dirty ventilation grid causes overheating of the engine, this can damage the engine. A dirty protective grid at the silencer poses a fire hazard.

Frequent engagement and disengagement of the clutch increases wear of the blade drive belt and the blade brake. Especially in case of high grass, clutch engagement leads to overload.

To keep the area well maintained, mow frequently and keep the grass short.

Only mow with a sharp and undamaged blade. Have the blade sharpened and balanced regularly (by authorised service centre).

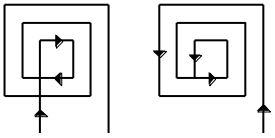
Do not mow when the grass is wet or when it is raining. The turf may be damaged and there is a danger of slipping!

Turn the device around only in already mown sections. Do not leave the device unattended while the engine is running

Set the cutting height so that the blade does not touch the ground even in case of terrain unevenness.

Always set the blade to transport position when you do not mow.

For mowing, always turn the accelerator lever to full throttle to achieve the best mowing performance.



To avoid blockage during the ejection of grass, we recommend, for flat terrain, to proceed according to the mowing patterns. Mulch is shredded into much smaller pieces when you mow the terrain once again in the opposite direction.

Prior to starting

Checking the oil level

Caution! Before mowing, always check the engine oil level and the oil level in the hydrostat (see Maintenance).

Fuel

As fuel, use unleaded petrol (see operating instructions of the engine manufacturer).

You can use E10 petrol. Do not store E10 petrol longer than 30 days.

Tanking up

Danger!
Fuel is ignited by hot engine parts.
Prior to filling up, switch off the engine and wait for at least 20 minutes until the engine has cooled down. Observe the safety instructions regarding the fuel!

Filling in the fuel:

1. For filling, use a canister with a filler spout or use as funnel.
2. Open the canister carefully so that the existing overpressure is discharged slowly and no fuel spurts out.
3. Open the tank cap carefully so that the existing overpressure is discharged slowly and no fuel spurts out.
4. Fill the fuel tank.
5. Screw the tank cap on tightly.

Adjusting the seating position

Adjust the seat in the longitudinal direction until your feet are positioned on the inclined support plates and you sit comfortably.

Adjusting the seat suspension

To provide the ultimate seating comfort, spring deflection should be fully utilized, if possible. Adjust the handwheel so that the seat does not contact the floor during normal operation.

Putting up the rollbar

For safety reasons, always use the device with the rollbar put up and locked. If the device falls over, the rollbar prevents the device from flipping over.

Only when driving on an even terrain, you can use the device with the rollbar put down.

Transport rack

Danger!
During the loading process, there is an increased risk of tilting.

Do not drive up or down steep slopes when the transport rack is loaded. Observe the permissible loading limits.

The device has a transport rack above the motor cover.

Caution! Load the transport rack so that the ventilation grid underneath it remains uncovered. Otherwise there is the danger that the motor overheats and is damaged.

Loading limits

Maximum load:	5 kg
Maximum height:	18 cm
Maximum width:	45 cm
Maximum length:	30 cm

Starting

Danger!
During startup, there is a risk of injury caused by the rotating blade.

Make sure that no one is within the danger zone of the blade.

Safety switches

The device is equipped with safety switches. To start the engine, the following requirements must be met:

– A driver sits in the driver seat.

– The blade clutch is switched off.

– The lever for cutting height adjustment is in transport position.

– The drive lever is in neutral position.

If the engine is running and the driver leaves the seat, the engine is shut off.

If the engine was shut down due to a safety switch, turn the ignition key to position “Ignition off”. By this, you will avoid discharging the battery.

Starting the engine

Start the device only when it is positioned on even and firm terrain.

1. Open the fuel valve.
2. Open the tank ventilation.
3. Sit down on the driver seat.
4. Turn off the blade clutch.
5. Move the lever for the cutting height adjustment to transport position.
6. Move the drive lever to neutral position.
7. **When the engine is cold:**
   Move the accelerator lever to cold start position (choke).
   When the engine is warm:
   Move the accelerator lever to middle position.
8. Turn the ignition key to starting position.
9. Once the engine has started, release the ignition key.

10. **Only for cold start:**
    Move the accelerator lever to middle position.
11. For mowing, set the accelerator lever to the maximum speed.

If the engine does not start after 5 seconds, release the key. Wait for approx. 15 seconds before trying to start the device again.

Engaging the blade

Only engage the blade when it turns freely and does not come into contact with objects or the floor.

Do not engage the blade in uncut grass because the blade drive otherwise becomes overloaded, can be damaged, or can wear prematurely.

1. Start the engine.
2. Move the lever for the cutting height adjustment to the highest cutting position.
3. Pull the blade clutch lever slowly forward - the blade starts up.
4. Set the desired cutting height.

If you set the cutting height to transport position during mowing, the blade is automatically disengaged.

Disengaging the blade when running over paths:

1. Quickly pull the blade clutch lever rearwards.

Oil pressure switch

Danger!
If the engine shuts down while you are mowing, the device can roll away.

Immediately actuate the parking brake to prevent the device from rolling away.

The oil pressure switch ensures that the engine is not damaged when the device is used in steep terrain.

The oil pressure switch switches off the engine when damage to the engine may occur due to lack of oil pressure. This may occur when:

– Oil level is too low.

– The device is in too steep a sloping position while in steep terrain.

How steep the gradient for the oil pressure switch to switch off the engine may be depends on the engine type, direction of inclination, and the oil level.

In order to restart the engine, let the device roll to terrain that is less steep while in idle state. In every case, check the oil level.

Towing

Danger!
The device can roll away without the drive.

Never unlock the drive in steep terrain without securing the device against rolling away.

If the engine cannot be started again, the device must be towed.

1. While using the brakes, let the device roll to terrain that is less steep.
2. Secure the device against rolling away or sliding.
3. Secure the device with a cable winch that has got enough load capacity.
4. For towing unlock the drive and release the parking brake.

Driving

Danger!
Mowing on a slope is dangerous. There is a risk of tilting and slipping.

Observe the safety instruction for mowing on slopes.

In case of a hazardous situation, switch off the drive and declutch the blade.

Brakes (devices with foot brake)

Warning!
The brake does not work if you continue to hold the drive lever while braking.

Release the drive lever when you actuate the foot brake.

To stop, move the drive lever slowly to neutral position.

The parking brake acts on the rear wheels. When the foot brake is actuated, the drive lever swivels all the way to neutral position/parking brake.

Use the actuation via foot pedal only in exceptional circumstances because the mower stops abruptly.

Driving

1. Start the engine.
2. Release the parking brake.
3. Slowly move the drive lever to the desired driving direction. The further the lever is moved away from the neutral position, the faster the mower moves.
4. To stop, move the drive lever slowly to neutral position or step on the foot brake.

Reversing

Danger!
Danger of injury when reversing.

Make sure that your path is clear of obstacles and that no other persons stand behind your device.

Always reverse slowly. Be especially cautious when the blade is engaged.

1. Release the parking brake.
2. Slowly move the drive lever to the rear. The move you move the lever away from the neutral position, the faster the mower moves.
3. In order to stop, move the drive lever slowly to neutral position.

Differential lock

The differential lock connects the two rear wheels rigidly to each other. This improves traction. Actuate the differential lock when a wheel slips.

Always actuate the differential lock when moving downhill. This improves the driving stability of the device. The risk of sliding or swerving of the rear is reduced and safe braking is possible.

Driving in curves while the differential lock is actuated is only possible with limitations.

To avoid excessive wear,

– actuate the differential lock only when the device is stopped, if possible.
– always step on the pedal all the way.
– release the differential lock when it is no longer absolutely needed.

Switching off and parking

Warning!
Risk of injury in case of unauthorised use.

Always remove the ignition key when you do not use the device.

1. Move the drive lever slowly to neutral position.
2. Turn the accelerator lever to idle speed.
3. Switch off the blade clutch.
4. Move the lever for the cutting height adjustment to transport position.
5. Actuate the parking brake.
6. Turn the ignition key to “ignition off”.
7. Wait until the engine comes to a standstill before you step away from the device.
8. Remove the ignition key.
9. Close the fuel valve.
10. Close the tank ventilation.

Maintenance and cleaning

Regular maintenance keeps your device ready for use.

If you do not observe the maintenance notices, faults may occur that are not covered by the warranty. Operational safety is endangered as well.

Contact your authorised service centre for checkup if you detect problems during maintenance.

Component	Action	Maintenance interval	
		A	B
Device	Check for safe working condition (basic inspection).	■	▲
	Clean.	■	
	Customer service.		▲
Fuel	Check fuel level.	■	
	Is the tank cap closed?	■	
Tank,fuel valve, and fuel line	Check parts for leaks and check for good condition.	■	▲
Ventilation grid	Clean.	■	▲
Engine cooling	Clean.		▲
Spark plug	Check/replace.		▲
Air filter	Maintain.	■	■▲
Blade and fastening components	Check for wear and damage. See chapter Checking the blade.	■	▲
	Change.		▲
	Clean the screw-on point of the knife blade.	■	
Blade brake	Does the blade function safely and does the blade come to a standstill within 5 seconds?	□	▲
Drive lever	Does the device stop when the lever is in neutral position (parking brake)?	□	▲
	Devices with foot brake: Does the lever move to neutral position when the foot brake is actuated?	□	▲
V-belt	Are the belts tensioned correctly, without fissures, and in good condition?		▲

Bowden cables	Check for proper function and ease of movement.	■	▲
Acceleration lever	Check for proper function.	□	▲
Chassis and impact protection	Check for rust and fissures and check the welding seams.	■	▲
	Are all protective devices and covers in place, fastened correctly and properly functioning?	■	▲
Label	Condition of the labels.	■	▲
Engine	See operating instructions of the engine manufacturer.	■	▲
	Check oil level (see operating instructions of the engine manufacturer).	■	▲
	Oil change.		▲
	Oil filter change		▲
Parking brake	Check.	■	▲
Check the foot brake	Check the foot brake	□	▲
Flammable material	Remove easily flammable debris buildup from the engine and the device.	■	▲
Steering	Check the clearance.	■	▲
Tyres	Check tyres and, if necessary, the tyre pressure.	■	▲
Safety switches	Check the switches at the driver seat, cutting height adjustment, and drive for proper function.	■	▲
Ignition lock	Check for proper function.	□	▲
Hydrostatic transmission	Check oil level.	■	▲
	Repair leaks.		▲
	Oil change after 50 h and every 200 h thereafter.		▲
Battery	Check the charging conditions.		▲

A Before and after each use.
B Annually or every 50 h.
■ By the user when the engine is not running.
□ By the user when the engine is running.
▲ By the authorised service centre.

Preparations

Prior to all maintenance and cleaning work:

1. Let the device cool down for at least 20 minutes.
2. Close the fuel valve and the tank ventilation.
3. Disconnect the minus pole of the battery.

Caution! During repair and maintenance work, lift the device only by the frame.

Cleaning the device

After each use, you should clean the device thoroughly, especially the bottom side and the blade.

Stuck grass or dirt affect the grass discharge and the cutting quality. For a sufficient engine cooling, keep the engine cover, ventilation grid, and the engine clean.

For sufficient cooling of the hydrostat transmission, keep the gearbox casing and the area around the gearbox fan clean.

Fire hazard! Pay special attention so that components at the silencer are clean.

For cleaning use a hand brush. Remove stubborn soiling with a wooden or plastic spatula. Clean the outer housing parts with a cloth.

Do not rinse off the device with a water jet or high pressure cleaner! Do not use aggressive cleaning agents.

General inspection

To make sure that the device can be operated safely, check all nuts, bolts, screws, connection of fuel lines, air filters etc. regularly for firm seating. Check the ignition wire and the spark plug connectors for damage.

Immediately replace damaged or worn parts, especially covers, protection skirt, silencers or fuel tank (authorised service centre).

Check all parts that contain fluids for leaks and proper condition. These can be: Fuel tank, fuel valve, fuel lines, carburetor, engine, gears, battery, hydraulic system.

In case of leaks, contact an authorised service centre.

Check the safety switches for proper function. It must not be possible to start the engine when:

– there is no driver on the driver's seat.
– The blade clutch is switched on.
– The lever for the cutting height adjustment is not in transport position.
– The drive lever is not in neutral position.

If the engine is running and the driver leaves the seat, the engine must shut down.

Contact an autorised service centre if one of these conditions is not met.

Checking the parking brake

Danger!
If the parking brake is incorrectly adjusted, the device can roll away.
Make sure that the parking brake is always functioning properly.

1. Put the device on a non-slip surface (e.g. concrete or asphalt).
2. Unlock the drive.
3. Actuate the parking brake.
4. Try to move the device.

If the rear wheels lock, the parking brake is correctly adjusted. If you can move the device, the parking brake must be re-adjusted by an authorised service centre.

Check the foot brake (if existing)

Check if the drive lever returns to neutral position (parking brake) when the brake pedal is actuated.

Checking the blade

Danger!
Improperly mounted and maintained blades pose a severe injury hazard.

Work at the blade shall only be performed by an authorised service centre.

Wear sturdy gloves when you check the blades.

Work on the blade requires special qualifications because an unbalance test is required and the torques must be observed.

Check the blade and all fastening parts for wear, damage and cracks

– before and after each mowing operation.

– when there are significant changes.

All blade parts shown and their fastening parts must be changed

– when damage or cracks were found.

– At least once a year or every 50 operating hours, regardless of whether there is wear or not. Material wears out, gets cracks which can endanger persons or property.

Vibrations indicate that

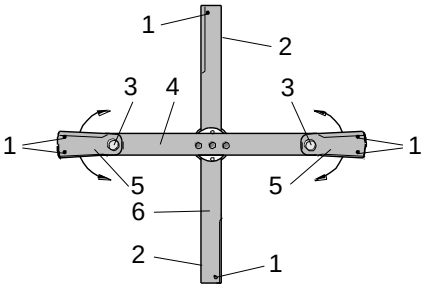
– the blade is worn excessively on one side or

– damage of motor or cutting unit mount (e.g. rubber elements).

Improperly sharpened blades increase the device load and result in fatigue cracks and breakage.

Ejected pieces can cause severe injuries.

Changing the blade



Cutting blades (5)

The cutting blades should move easily. To ensure this, always keep the pivotal point (**3**) clean. Never mow when the cutting blades are stuck.

Caution! To prevent unbalance replace or reverse the cutting blades in pairs only!

The cutting blades are reversing blades. Reverse both cutting blades

– when one of the wear marks (**1**) was reached.

– when the second cutting edge of the cutting blade has not been used yet.

It is absolutely necessary to change the cutting blades and the fastening parts

– when one of the wear marks (**1**) of the second cutting edge was reached.

– when the thickness of the cutting blade at any point is below 1 mm (exception: cutting edge).

Mulching blade (6)

The mulching blade and the fastening parts must be changed

– when one of the wear marks (**1**) was reached.

– when the thickness of the blade at the rear edge (**2**) or at any other point is below 1 mm (exception: cutting edge).

Original blade

An original AS-blade is engraved with:

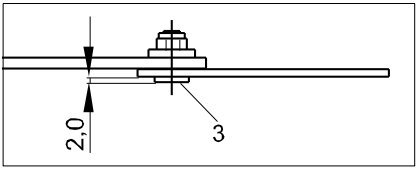
AS GXXXXXXXX or EXXXXX

This corresponds to the spare part number.

Checking the condition of the cutting blade screws

Danger!
When a screw head is worn, the cutting blades can become loose.

Check all screws used for fastening the cutting blades!



The screw head (3) wears off during mowing and must be replaced at the latest when it is down to a thickness of 2 mm.

To prevent unbalance replace the cutting blade screws in pairs only!

Checking the blade clutch

Check the blade clutch for proper function by disengaging the blade. The blade must come from full speed to a standstill in less than 5 seconds. Contact an authorised service centre if this is not the case.

Maintaining the engine

Danger!
If the speed of rotation is set too high, objects can be ejected. The engine can be damaged and noise pollution increases.

Do not change the basic setting of the carburetor or the speed control.

The operating instructions of the engine are prepared by the engine manufacturer. They contain the maintenance instructions and the warranty conditions for the engine. If warranty work for the engine is required, please contact your authorised service centre or the nearest authorised engine dealer.

To ensure a long service life of the engine, sufficient engine cooling is required.

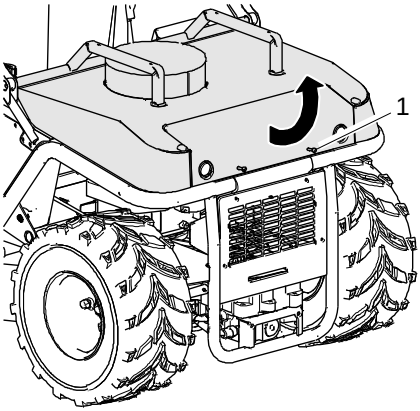
Keep the
- engine cover (ventilation grid),
- silencer (protective grid) and
- cooling fins of the engine

clean at all times.

Opening the engine cover

Warning!
The engine cover can accidentally close.

Make sure that the engine cover stays open while you carry out work at the engine. Close the engine cover immediately after you have completed maintenance work at the engine.



To carry out maintenance work at the engine, slacken the screws (**1**) and open up the engine cover.

Checking the engine oil level

Never allow the oil level to be too low otherwise the engine can be damaged. Never fill in too much oil. Otherwise, there is the risk that the oil enters and destroys the air filter.

For this, observe the attached operating instructions of the engine.

Checking the spark plug

Danger!
The ignition system generates an electromagnetic field.

Wearers of pacemakers must not work on live parts.

Soiled spark plugs reduce the engine output. Clean the electrode of the spark plug with a brass wire brush. Check the electrode gap (see operating instructions of the engine manufacturer). Make sure that the insulator around the electrode is not damaged. Never use a damaged spark plug.

Tighten the spark plug using the correct torque (see operating instructions of the engine manufacturer).

Always check both spark plugs.

Maintaining the air filter

Danger!
Cleaning agents pose a fire and explosion hazard.

Never clean the air filter with flammable solvents.

Make sure that the air filter is always clean. A dirty air filter reduces the engine performance and leads to increased engine wear and fuel consumption. Irrespective of the operating hours, change the filter insert at least once a year. Do not operate the engine without air filter.

For this, observe the attached operating instructions of the engine.

Checking and charging the battery

Danger!
When the battery is being charged, explosive gases escape.

Never charge the battery close to flames. Avoid sparking and do not smoke.

Caution!
When the battery is connected, there is a risk of short circuit.

Do not put tools or metal objects onto the battery. Observe the assembly order when connecting and disconnecting the battery.

If the starter does not turn the engine or turns it too weakly charge the battery.

The battery is maintenance-free and gas-tight.

Use electronically controlled charging systems. These charging systems detect the connected battery and charge it with the required charging current and terminate the charging process when the battery is full.

Use a charging system that is equipped with a 12 V connection for on-board supply sockets. For charging, insert the plug into the on-board supply socket.

Charge the battery before you put the device away for winter storage. A fully charged battery lasts for approx. 4 months before it needs to be recharged.

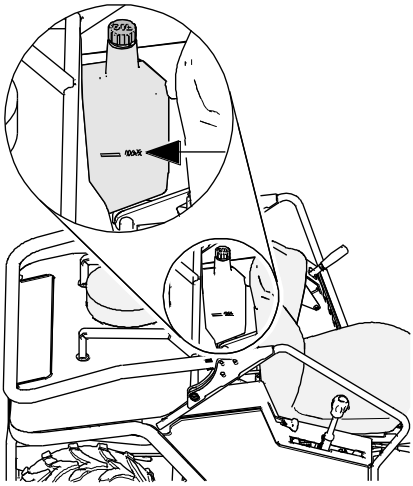
Hydrostat transmission

Danger!
Risk of injury caused by high pressure (up to 410 bar) in the hydraulic system.

Check the hydraulic hoses for leaks, damage, and chafe marks.

Caution!
If oil leaks, there is a risk of environmental pollution.

Check the hydraulic drive system for leaks before and after mowing.



At operating temperature, the oil level must be at the marking “MAX”. At ambient temperature, the oil level can be below, at high temperature slightly above the marking.

Make sure that sufficient oil is always available in the surge tank so that air does not enter the hydraulic system.

The oil change must be carried out by an authorised service centre (see maintenance table).

Check that the gearbox fan is undamaged.

The hydraulic drive generates a permanent operating noise that gets louder when the load (e.g. on steep terrain) is heavier. If the operating noise changes by becoming irregular or very loud, let the hydrostatic drive cool down and check the oil level.
If the changed operating noise persists, have the device checked by an authorised service centre.
It is possible that the hydraulic system must be bled or the oil must be changed. For refilling, only use fully synthetic engine oil 5 W50

Storage

Storing the device

Keep the device in a closed, dry, and well ventilated room and out of reach of children.

Always eliminate all problems of the device before you store it so that the device is always in a safe-to-operate state. Let the engine cool down before you store the device in closed rooms.

Also observe the notices on storage in the attached operating instructions by the engine manufacturer.

Longer storage

1. Observe the safety instructions regarding the handling of fuel.
2. Draining fuel tank: Put a piece of a tube on the fuel valve and fill the fuel in an adequate fuel container.
3. Emptying carburetor: Start the engine and let it run until it stops on its own.
4. Clean the device thoroughly.
5. Touch up defects in painting (for spray paint, see Accessories).
6. Preserve the engine:
   – Unscrew the two spark plugs.
   – Fill a tablespoon of engine oil into each spark plug opening.
   – Briefly actuate the starter (oil is distributed in the cylinder).
   – Screw the spark plugs back in.
   – Do not put the spark plug connector on!
7. Remove the ignition key and keep it separate from the device.

In autumn, have your device checked by an authorised service centre!

Also observe the notices on storage in the attached operating instructions by the engine manufacturer.

Restarting

If you want to start the device after a longer storage, carry out the tasks described in chapter Maintenance.

Spare parts

The reliable and safe operation of the device also depends on the quality of the spare parts used. Only use original spare parts and accessories that were approved by "AS-Motor Germany". When foreign parts are installed, the warranty and guarantee shall be void for the foreign part and for the device and for any resulting damage.

Inform your authorised service centre about the device type and serial number of your devices when you order spare parts.

Wear parts

Some parts are wear parts. They wear during use and must be replaced. The warranty does not cover the following parts:

Blades, cutting blades, cutter bars, blade bolts, sliding plates, V-belt, chains, Bowden cables, starter ropes, pressure plates, air filters, spark plugs, disc springs, lock washers, fuses, discs, thrust plates, pressure discs, protection skirts, impact protection, wheels, tires.

Tyres

Warning!
If wheels with different diameters are used or if standard wheels and accessories are mixed, damage of the all-wheel drive system can result. There is a risk of accident.

Only use the set of tyres authorized by "AS-Motor Germany".

Only the following wheels may be used:

AS 940 Sherpa 4WD:

– AS standard tyres (small wheels)
– AS accessories: G06921014 / E09305 (big wheels)
– AS accessories: G06921016 / E09349 (twin tyres)

AS 940 Sherpa 4WD XL:

– AS standard tyres (big wheels)

Always mount front and rear tyres in pairs.

For tyre designation, see the Technical data.

Disposal

The device cuts and shreds the plant material in a single operation. Shredded plant material decomposes quickly, can be utilized as fertilizer, and, therefore, be left on the ground.

Dispose of waste oil and fuel in accordance with the local regulations or return it to an oil shop.

Packaging, device, and accessories are made of recyclable materials and must be disposed of accordingly.

Warranty

The conditions of the warranty can be found on the reverse side of your warranty card. Send the filled-out warranty card immediately after the purchase of your device to "AS-Motor Germany" or the supplier. Otherwise, the warranty is no longer valid.

Preserve the proof of purchase or the warranty card that was filled out by the vendor.

Troubleshooting

The following table contains the most frequent problems and their elimination. If more problems occur, contact the closest authorised service centre.

You can find an authorised service centre on our home page www.as-motor.de.

Problem	Possible cause	Remedy
Starter does not turn	Safety switches are not actuated.	– Move drive lever to neutral position. – Move cutting height adjustment to transport position. – Put driver in seat to activate seat contact switches.
	Battery is empty: – Ignition key was not in position “Off”. – Standstill period was too long.	Charge the battery (see Checking the battery) or have authorised service centre do so.
	Fuse is defective.	Replace (if necessary, have authorised service centre do so).
	Battery is defective.	Replace the battery (authorised service centre).
Engine does not start	Fuel valve is closed.	Open fuel valve.
	Tank ventilation screw is closed.	Open tank ventilation screw.
	No fuel is in the tank.	Refill fuel.
	Choke is open.	Close the choke.
	Device was tilted – oil leaked into the air filter.	Replace air filter, unscrew spark plug and start several times when the fuel valve is closed, dry the spark plug and screw it back in.
	Engine was flooded due to too many start attempts.	Unscrew spark plugs and start several times when the fuel valve is closed, dry the spark plugs and screw them back in.
	Spark plug connector is pulled off.	Observe the safety instructions! Put spark plug connector back on.
	Air filter is dirty.	Maintain air filter (see also Maintenance and cleaning).

	Spark plugs are sooted, damaged, or incorrect electrode gap.	Clean spark plugs and check electrode gap (see also Maintenance and cleaning). Replace spark plugs if necessary.
	Housing of the mower is jammed.	See also Maintenance and cleaning.
	No oil pressure: Too little engine oil.	Check engine oil level, refill.
	No oil pressure: Slope too steep.	Bring the device into a level position.
	Poor quality, dirty, or old fuel.	Clean fuel system (authorised service centre). Always use fresh fuel.
Engine starts badly or runs irregularly	Choke is closed.	Open the choke.
	Air filter is dirty.	Maintain air filter (see also Maintenance and cleaning).
	Poor quality, dirty, or old fuel.	Always use fresh fuel.
	Spark plug is sooted, damaged, or incorrect electrode gap.	Clean spark plug and check electrode gap (see also Maintenance and cleaning). Replace spark plug if necessary.
Device does not move	The drive is unlocked.	Lock the drive.
	Hydrostatic drive is overheated.	Cool down (see also Maintenance and cleaning).
Blade cannot be engaged	Lever for cutting height adjustment in transport position.	Lower lever for cutting height adjustment to the desired cutting height.
The blade does not rotate	V-belt is insufficiently tensioned or damaged.	Authorised service centre.
	Bowden cable is defective.	Authorised service centre.
Strong vibrations during operation	Unbalance at the blade caused by incorrect sharpening or chips on the blade.	Have blade resharpened and balanced by an authorised service centre. Replace a damaged blade immediately.
	Blade drive shaft is bent due to collisions with foreign objects.	Authorised service centre.
	Engine fastening is loose.	Authorised service centre.
	Blade fastening is loose.	Authorised service centre.
Irregular noises	Loose fastening elements.	Authorised service centre.

	Silencer is defective.	Authorised service centre.
	Hydrostatic drive is overheated.	Cool down (see also Maintenance and cleaning).
Engine is smoking	Air filter is soiled or drenched with oil.	Maintain or replace air filter (see also Maintenance and cleaning).
	Oil level is too high.	Have authorised service centre lower the oil level to the marking.
Engine gets hot	Ventilation grid is dirty.	Clean ventilation grid.
	Oil level in the engine is too low.	Refill engine oil (see operating instructions of the engine manufacturer).
	Cooling fins of the engine are dirty.	Have cooling fins cleaned by authorised service centre.
Uneven cut, lawn becomes unsightly	Blade is dull or worn.	Have blade resharpened and balanced by an authorised service centre. Replace a damaged blade immediately.
	Speed is too high proportionately to the cutting height.	Reduce speed and/or select the correct cutting height.
	Housing of the mower is heavily contaminated.	Clean.
	Different tire pressure.	the tire pressure.
	Mower housing is not parallel to the ground.	Adjust (authorised service centre).
Mulching result with high plant material not satisfactory	Speed is too high.	Reduce speed.
Mulching result with low plant material not satisfactory	Plant material is ejected too quickly.	Increase speed.
Housing is jammed	Mowed grass was too long or too damp.	Adjust cutting height and mowing speed to the mowing conditions.
	Blade is worn.	Authorised service centre.
	Engine speed is too low despite full power.	Authorised service centre.
The device does not stop when the brake is actuated	Brake is adjusted incorrectly, worn, or defective.	Authorised service centre.

The engine does not switch off	Switching off system is defective.	Close the fuel valve. Authorised service centre.
The tires become flat	Thorns or sharp objects damage the tires.	If necessary, use tire protection gel (authorised service centre).

Technical data

Type	AS 940 Sherpa 4WD	AS 940 Sherpa 4WD XL and AS 940 Sherpa 4WD with big wheels as accessories
Range of application (temperature)	0 - 30 °C For temperatures below 5 °C, observe the engine manufacturer's information regarding the engine oil.	
Engine, type Manufacturer Type Cylinder capacity Performance Engine speed	Two cylinder four stroke OHV engine Briggs & Stratton 44 Professional Series 8, V-Twin 724 cm^3 16.5 kW (22.4 PS) 3300 min^{-1}	
Starting device	Electric start	
Battery	12 V, approx. 30 Ah	
Fuses Main fuse Fuse controller generator	 25 A 25 A	
Drive Rear Front	Permanent all-wheel drive Rear axle with differential lock. Pendular portal axle, with two hydraulic engines and upright shafts.	
Speed forward Speed reverse	0 to 6.2 km/h 0 to 6.0 km/h	0 to 6.7 km/h 0 to 6.5 km/h
Maximum area coverage	Approx. 5500 m^2/h	approx. 6000 m^2/h
Turning radius	approx. 1.4 m	approx. 1.2 m
Seat	Movable, spring mounted, adjustable to the driver's weight.	
Cutting device, type	Cutter bar with screwed-on reversing blades and mulching blades	
Cutting width	90 cm	
Cutting height in 5 levels Transport position	50 to 105 mm 130 mm	80 to 135 mm 160 mm
Drive of cutting tool Clutch of cutting tool Growth height	V-belt Belt tension clutch up to approx. 150 cm	

Measures and weights		
Weight	290 kg	298 kg
Transport size with packaging L/W/H	195/111/112 cm	195/111/112 cm
Max. tyre dimensions L/W/H	191/98/152 cm	191/106/156 cm
Height when rollbar is folded down	ca 100 cm	ca 103 cm
max. towing load	100 kg	
max. vertical load	25 kg	
Capacities		
Fuel tank	15 litres including reserve (unleaded regular petrol)	
Engine oil	approx. 1.9 litres 5 W50 fully synthetic engine oil (see also Checking the oil level).	
Transmission oil (hydrostat)	approx. 6.8 litres 5 W50 fully synthetic engine oil.	
Sound level		
Measured sound level L_{WA}	102.0 dB according to DIN EN 12733	
Sound level at working place L_{pA}	91 dB according to DIN EN 12733	
Measurement uncertainty k	3.0 dB (A)	
Vibration emission value		
Hand-arm-vibrations $a_{h,W}$	2 m/s^2 according to DIN EN 12733	
Measurement uncertainty U	2m/s^2	
Whole body vibration $a_{h,W}$	0.8 m/s^2 according to DIN EN 12733	
Measurement uncertainty U	0.5 m/s^2	
Tyre pressure		
Front	0.9 to 1.2 bar	2 bar
Rear	0.4 to 1.2 bar	1.5 bar
Tyre designation	Small wheels	Big wheels
Front	15x5.00-6	4,80/5.00-8
Rear	18x9.50-8	20x10.00-8
Stability(in accordance with the standard measuring method)	23°	23°

Accessories

Steering wheel knob:	G06980011	E09327
Trailer:	G06800003	E09311
Trailer hitch:	G06900002	E09323
Snow remover blade without adaptor:	G06837006	E09306
Adaptor snow remover blade AS 940:	G06937014	E09307
Adaptor snow blade AS 940 with weatherproof cabin:	G06900005	E09329
Weatherproof cabin:	G06928001	E09326
Snow chains front: (only for small wheels, not for type XL or accessory E09305)	G06937005	E11796
Snow chains rear: (only for small wheels, not for type XL or accessory E09305)	G06937003	E09325
Big wheels (1 set): (no fitting of snow chains possible!)	G06921014	E09305
Twin tires: (no fitting of snow chains possible!)	G06921016	E09349
Clinometer:	G06950027	E11835
Mulching kit:	G06926034	E09164
Spray paint 400 ml, colour orange:	G00011050	E04606

AS-Motor Germany GmbH & Co. KG
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Declaration of conformity

We declare that the grassland mower type AS 940 Sherpa 4WD
with serial number starting from 021914110001
as well as type AS 940 Sherpa 4WD XL
with serial number starting from 026414110001

as brought into circulation by us conforms to all relevant safety and health requirements of the EC directives listed.

- 2006/42/EC,
- 2004/108/EC
- 97/68/EC

Function:
The device is intended for cutting and mulching grass or similar vegetation in agriculture, forestry, and landscape conservation.

Applied standards: DIN EN 12733

Place where all technical records are filed:
AS-Motor Germany GmbH & Co. KG
Ellwanger Straße 15
D-74424 Bühlertann

Bühlertann, January 2015

Eberhard Lange
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By Proxy Frank Einsiedler
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Professional technology for gardens and landscapes

Allmäher®	Manoeuvrable meadow mower for extensive green area care. The Allmäher reliably shreds metre-high grass, undergrowth, and weeds.
Ride-on Allmäher®	Ease of use and high area coverage all combined in a compact ride-on mower. Low centre of gravity, optimum weight distribution, and broad wheel base provide you with the best performance on slopes and power reserves.
Rear discharge mower	Professional lawn mower with rear discharge. With wheel drive and infinite speed regulation for exceptional cutting and catching performance in any situation.
Rotary mower	The economic alternative to bar mower. Ideal for fodder production. The grass is not shredded and placed into a pile on the side.
Flail mower	The flail blades are supported movably and avoid rocks and other obstacles and chop the cuttings several times.
Side discharge mower	This solid allrounder has a side discharge, wheel drive, and a housing of 3 mm thick plastic-coated steel.
Mulching mower	Mulching saves both time and money. The mulch stays on the ground and practically disappears into the lawn so that no complex disposal is necessary.
WeedHex	Removes weeds carefully, quickly, and without the use of chemicals: on transport surfaces, walls, curbs, and between interlocking blocks.